



ALLIA.62D3C3

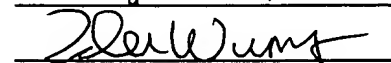
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Schutt, et al.,)
)
Serial No. : 10/644,634)
)
Filed : August 19, 2003)
)
For : Ultrasonic Imaging System)
Utilizing A Long-Persistence)
Contrast Agent)
)
Examiner : Hartley, M.)
)
Group Art Unit : 1616)
_____)
)

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: USPTO, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia, 22313-1450 on

August 12, 2004


John E. Wurst

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA
22313-1450

Dear Sir:

In accordance with Applicant's duty of disclosure under 37 CFR § 1.56, and in accordance with 37 CFR § § 1.97 - 1.98, Applicant submits the enclosed Form PTO-1449 listing references for the above listed patent application. All of these references are of record in related U.S. Patent Application Serial No. 09/919,433, filed 07/31/2001 and now abandoned, which is a continuation of U.S. Patent Application Serial No. 08/986,879, filed December 8, 1997, now U.S. Patent No. 6,280,704, which is a continuation of U.S. Patent Application Serial No. 08/486,531, filed June 7,

08/16/2004 GWORDOF1 00000106 011008 10644634

01 FC:1806 180.00 DA

Serial No. : 10/644,434
Filed : August 19,2003

1995, now U.S. Patent No. 5,695,741, which is a divisional of U.S. Application Serial No. 08/284,083, filed August 1, 1994, now U.S. Patent No. 5,605,673, which is a continuation-in-part of U.S. Application Serial No. 08/405,447, filed March 16, 1995, now U.S. Patent No. 5,639,443, which is a file wrapper continuation of U.S. Patent Application Serial No. 08/099,951, filed July 30, 1993, which is now abandoned.

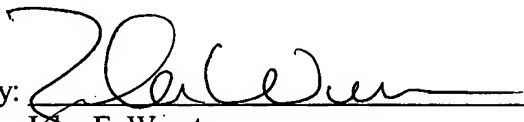
This Information Disclosure Statement is being filed after the receipt of a first Office Action on the merits, and a fee is included in accordance with 37 C.F.R. § 1.97 (b) (3).


The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made; and shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (b). Further, Applicant(s) make no representation regarding the completeness of this list or that better art does not exist.

Respectfully submitted,

IMCOR PHARMACEUTICAL CO.

Dated: August 12, 2003

By: 
John E. Wurst
Registration No. 40,283
Attorney of Record

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ALLIA.62D3C3	APPLICATION NO. 10/644,634
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Schutt, et al.	
		FILING DATE August 19, 2003	GROUP 1616

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	4 2 7 6 8 8 5	07/07/81	Tickner, et al.	128	660	
	4 4 6 6 4 4 2	08/21/84	Hilmann, et al.	128	653	
	4 6 1 3 3 2 6	09/23/86	Szwarc	604	89	
	4 6 8 4 4 7 9	08/04/87	D'Arrigo	252	307	
	4 7 1 8 4 3 3	01/12/88	Feinstein	128	660	
	4 7 7 4 9 5 8	10/04/88	Feinstein	128	660.01	
	4 8 3 2 9 4 1	05/23/89	Berwing, et al.	424	9	
	4 8 4 4 8 8 2	07/04/89	Widder, et al.	424	9	
	4 8 9 8 7 3 4	02/06/90	Mathiowitz, et al.	424	426	
	4 9 2 7 6 2 3	05/22/90	Long, Jr.	424	5	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	5 9 6 7 2 2 9	04/84	Japan				
	0 2 3 0 0 9 1	08/87	Europe				
	0 2 7 9 3 7 9	08/88	Europe				
	0 3 5 7 1 6 4	03/90	Europe (in German with Summary in English)				
	0 3 5 9 2 4 6	03/90	Europe				
	9 1 0 9 6 2 9	07/91	Patent Cooperation Treaty				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	1 Acoustic Non-Linearity Due to Micro-Bubbles in Water, Wesley & Safar, <i>Acustica</i> , 22: 177-182, 1969-70.
	2 Ultrasonic Disruption, Alliger, Reprinted from <i>American Laboratory</i> , October 1975.
	3 Demonstration of Nonlinear Acoustical Effects at Biomedical Frequencies and Intensities, Carstensen, et al., <i>Ultrasound in Medicine & Biology</i> , 6: 159-168, 1980.
	4 <i>Textbook of Diagnostic Ultrasonography</i> , Second Edition, by Sandra Hagen-Ansert, pp. 10-12, 1983.

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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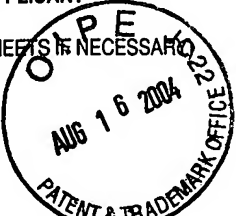


U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	4	9	5	7	6	5	6	09/18/90	Cerny, et al.	252	311	
	5	0	8	8	4	9	9	02/18/92	Unger	128	667.02	
	5	1	2	3	4	1	4	06/23/92	Unger	128	654	
	5	1	4	1	7	3	8	08/25/92	Rasor, et al.	424	2	
	5	1	4	9	3	1	9	09/22/92	Unger	604	22	
	5	1	5	5	2	1	5	10/13/92	Ranney	534	16	
	5	1	9	6	1	8	3	03/23/93	Yudelson, et al.	424	9	
	5	2	0	5	2	8	7	04/27/93	Erbel, et al.	128	632	
	5	2	0	5	2	9	0	04/27/93	Unger	128	653.4	
	5	2	7	1	9	2	8	12/21/93	Schneider, et al.	424	9	

FOREIGN PATENT DOCUMENTS													
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO
	9	1	1	2	8	2	3	09/91	Patent Cooperation Treaty				
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	9	2	2	2	2	4	7	12/92	Patent Cooperation Treaty				
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	9	3	0	1	7	1	2	02/93	Patent Cooperation Treaty				
	9	3	0	3	6	7	1	03/93	Patent Cooperation Treaty				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
	5	Application of ultrasonic processors, Berliner, III, <i>Biotechnology Laboratory</i> , 46-52, March 1984.										
	6	Ultrasound Enhancement of Tissues During the Capillary Phase of PFOB - 100% Immediately Post Infusion, Mattrey, M.D., "Abstract, Association of University Radiologists" 35th Annual Meeting, March 22-27, 1987.										
	7	Perfluorochemicals as US Contrast Agents for Tumor Imaging and Hepatosplenography: Preliminary Clinical Results, Mattrey, M.D., <i>Radiology</i> , 163: 339-343, 1987.										
	8	Perfluorooctylbromide: A New Contrast Agent for CT, Sonography, and MR Imaging, Mattrey, M.D., Manuscript 1988										

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	5 3 1 5 9 9 7	05/31/94	Widder, et al.	128	653.3	
	5 3 3 3 6 1 3	08/02/94	Tickner, et al.	128	662.02	
	5 3 3 4 3 8 1	08/02/94	Unger	424	9	
	5 3 4 8 0 1 6	09/20/94	Unger, et al.	128	662.02	
	5 3 5 2 4 3 5	10/04/94	Unger	424	9	
	5 3 5 2 4 3 6	10/04/94	Wheatley, et al.	424	9	
	5 1 9 5 5 2 0	05/23/93	Schliet, et al.	128	660.01	
	5 5 8 5 1 1 2	12/17/96	Unger, et al.	424	450	
	5 5 3 6 4 8 9	07/16/96	Lohrmann, et al.	424	9.52	
	4 5 7 2 2 0 3	02/25/86	Feinstein	128	661	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	0 5 5 4 2 1 3	08/93	Europe				
	9 3 2 5 2 4 2	12/93	Patent Cooperation Treaty (Abstract & Claims)				
	0 4 5 8 7 4 5	09/94	Europe				
	9 4 2 1 1 7 5	09/94	Patent Cooperation Treaty				
	9 0 0 1 9 5 2	03/90	WO				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
9	Absorption and scatter of encapsulated gas filled microspheres: theoretical considerations and some measurements, de Jong, et al., <i>Ultrasonics</i> , 30: No. 3, 95-103, 1992	
10	Simulated Capillary Blood Flow Measurement Using a Nonlinear Ultrasonic Contrast Agent, Schroepe, et al., <i>Ultrasonic Imaging</i> , 14: 134-158, 1992	
11	<i>Liposomes, From Biophysics to Therapeutics</i> , Edited by Mark J. Ostro, Marcel Dukker, Inc., New York, pp. 2-8, 17-21, 74 and 105.	
12	<i>Foundation of Colloid Science</i> , Volume 1, Hunter, et al., Clarendon Press, Oxford, pp. 20 & 22.	
13	Peripheral Vascular Doppler Examinations, Rae, II, <i>Textbook of diagnostic ultrasonography</i> , pp. 323-325.	

EXAMINER	DATE CONSIDERED
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ALLIA.62D3C3	APPLICATION NO. 10/644,634
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		FILING DATE August 19, 2003	GROUP 1616



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EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	FILING DATE (IF APPROPRIATE)
	5	4	1	0	5	1	6		04/25/95	Uhlendorf, et al.	367	7
	5	7	0	5	1	8	7		01/06/98	Unger		
	5	4	6	9	8	5	4		11/28/95	Unger, et al.		
	5	5	4	2	9	3	5		05/06/96	Unger, et al.		

FOREIGN PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	TRANSLATION
	WO	89	0	6	9	7	8		08/25/89	Australia		YES NO
	WO	92	2	2	2	4	9		12/23/92	PCT		
	WO	94	1	6	7	3	9		08/04/94	PCT		
	WO	95	1	6	4	6	7		06/22/95	PCT		
		2	0	7	7	3	8	3	09/02/92	Canada		

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
	14	"Principles and Recent Developments in Ultrasound Contrast Agents", N. de Jong, et al., <i>Ultrasonics</i> , 29:324-330, 1991										
	15	"First Ultrasound Contrast Agent Awaits OK from FDA", Greer, <i>Advance for Radiologic Science Professionals</i> , pp. 3-5, 1993										
	16	Kitagawa, et al. <i>Biological Abstracts</i> 63:6392 (1977)										
	17	Keough, et al. <i>Biological Abstracts</i> 81:105308 (1986)										

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FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	18	Matsuda, et al. "Contrast Echocardiography of the Left Heart by Intravenous Injection of Perfluorochemical Emulsion" <i>J. of Cardiology</i> 13(4):1021-1028 (1983)
	19	Sunamoto, et al. "Liposomal Membranes" <i>J. Biochem.</i> 88:1219-1226 (1980)
	20	Mattrey, R.F., M.D., "Perfluorooctylbromide: A Liver/Spleen-Specific and Tumor-Imaging Ultrasound Contrast Material" <i>RADIOLOGY</i> 145(3):759-762 (1982)
	21	Goldberg, et al., <i>Ultrasound in Med. & Biol.</i> 20:319-333 (1994)
	22	Schrope, et al., <i>Ultrasound in Med. & Biol.</i> 19:567-579 (1993)
	23	Mattrey, Art., <i>Cels, Blood subs., and Immob. Biotech</i> 22:295-313 (1994)

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		4	6	5	8	8	5	6					
		4	6	5	8	8	5	6	04/14/87	Rasor, et al.	424	9	
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		4	9	2	5	6	7	8	05/15/90	Ranney	424	493	
		5	1	0	8	7	5	9	04/28/92	Ranney	424	493	
		5	1	8	6	9	2	2	02/16/93	Shell, et al.	128	654	
		5	1	9	0	9	8	2	03/02/93	Erbel, et al.	521	56	
		5	3	0	5	7	5	7	04/26/94	Unger, et al.	128	662.02	
		5	3	1	0	5	4	0	05/10/94	Giddey, et al.	424	9	
		5	3	1	5	9	9	8	05/31/94	Tachibana, et al.	128	660.01	
		5	3	7	6	3	8	0	12/27/94	Kikuchi, et al.	424	450	

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
		1	2	3	2	3	5	B1	10/31/84	EPO				
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		8	9	0	5	1	6	0	06/15/89	PCT			Abstract	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	24	Peter N. Burns, <i>Radiological Medica</i> 87:71-82 (Suppl. 1 al. n.5, 1994)

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	5	3	8	0	5	1	9	01/10/95	Schneider, et al.	424	9	
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	5	4	1	3	7	7	4	05/05/95	Schneider, et al.	424	9.51	
	5	5	5	6	6	1	0	09/17/96	Yan, et al.	424	9.52	
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	5	5	5	8	8	5	5	09/24/96	Quay	424	9.5	
	5	5	5	8	8	5	6	09/24/96	Klaveness, et al.	424	9.37	

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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		9	3	0	6	8	6	9	04/15/93	PCT				
		9	4	0	1	1	4	0	01/20/94	PCT (Abstract and translation of Claims)			Claims	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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	5	5	5	8	8	5	7	09/24/96	Klaveness, et al.	424	9.52	

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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		9	4	0	8	7	0	7	04/28/94	PCT				
		9	4	0	9	7	0	3	05/11/94	PCT			Claims	
		9	4	0	9	8	2	9	05/11/94	PCT				
		6	0	6	6	1	3	A1	07/20/94	EPO				
		9	4	1	6	7	3	8	08/04/94	PCT				

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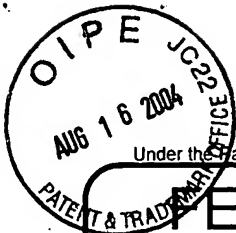
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														YES	NO
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		9	6	2	8	0	9	0	09/16/96	WO					

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031198]
[NAI-1645:cd
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110601
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060804



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 390

Complete if Known

Application Number	10/644,634
Filing Date	August 19, 2003
First Named Inventor	Schutt et al.
Examiner Name	Hartley, M.
Art Unit	1616
Attorney Docket No.	ALLIA.62D3C3

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number
Deposit
Account
Name

011008

Alliance Pharmaceuticals

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 390

SUBMITTED BY

Name (Print/Type)	John E. Wurst	Registration No. (Attorney/Agent)	40,283	Telephone	858-410-5174
Signature		Date	August 12, 2004		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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